

FACILITY STATUS CHANGE FORM

Date Submitted: April 11, 2013 Originator: Chris Strand Phone: 554-2720	Area: 300 Area Facility ID: 3906A Action Memorandum: Action Memorandum #3	Control #: D4-300-084
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This form documents agreement among the parties listed below on the status of the facility D&D operations and the disposition of underlying soil in accordance with the applicable regulatory decision documents.

Section 1: Facility Status

- ☐ All D4 operations required by action memo complete.
- ☒ D4 operations required by action memo partially complete, remaining operations deferred.

Description of Completed Activities and Current Conditions:

Deactivation: Utility isolations were performed on the facility prior to beginning removal actions.

Characterization inspection, sampling, and scoping surveys identified no hazardous materials in the facility or in facility components, therefore, none were removed prior to demolition.

Demolition: Prior to demolition, the lift station was filled with controlled density fill. The above-grade structure and below-grade portion to minus 3 feet was demolished in February of 2013. The balance of the below-grade structure and associated piping remain in place. Demolition debris were removed and disposed of at ERDF. The demolition was performed under Radiological and Industrial Hygiene controls.

Description of Deferral (as applicable):

Removal of the below-grade portion of the 3906A lift station and associated piping is interfered with by active process sewer located immediately to the west. The active process sewer supports on going Retention Transfer System (RTS) operations. Because the 3906A lift station and associated piping were associated with past 300-15 operations, these components will be addressed by future remedial actions once the RTS system is deactivated, eliminating the current interference.

Section 2: Underlying Soil Status

- ☐ No waste site(s) present. No additional actions anticipated.
- ☒ Documented waste site(s) present. Cleanup and closeout to be addressed under Record of Decision.
- ☐ Potential waste site discovered during D4 operations. Waste site identification number <to be> assigned.
Cleanup and closeout to be addressed under Record of Decision.

Description of Current/As-Left Conditions:

All above-grade structures and the below-grade portion to minus 3 feet were removed. Excavations were backfilled to grade with clean fill. GPERs surveys were performed prior to backfill. No radiological or Industrial Hygiene postings remain.

Identification of Documented Waste Site(s) or Nature of Potential Waste Site Discovery (as applicable):

The 300-15 is associated with past 3906A operations and is co-located nearby.

Section 3: List of Attachments

1. Facility information (building history and characterization).
2. Project photographs.
3. GPERs Surveys of the 3906A excavation.

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4. 3906A Excavation Civil Survey.
5. EPA Approved End-State.

DOE-RL

Date

Lead Regulator



EPA



Ecology

Date

DISTRIBUTION:

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Ecology: Rick Bond, H0-57

DOE: Rudy Guercia, A3-04

Document Control, H0-30

Administrative Record, H6-08 (300-FF-2 OU)

SIS Coordinator: Ben Cowin, H4-22

D4 EPL: Chris Strand, L4-45

Sample Design/Cleanup Verification: Theresa Howell, H4-22

FR Engineering: Eric Ison, L6-06

FR EPL: Chris Strand, L4-45

Attachment 1: Facility Information

Facility History:

3906A Lift Station

The 3906A Lift Station was located due north of the 340 complex and served as a gravity collection point and lift station for the sanitary and process sewer systems. The lift station consisted of an at-grade concrete pad and an 18.5 ft deep concrete pit containing a pump with associated influent and effluent piping. The facility included an above-grade electrical utilities and alarm panel located on the east side of the lift station.

Facility History:

The 3906A Lift Station was constructed in 1996 and taken out of service in 2012. The lift station historically serviced the 300 Area sanitary sewer system, but later configurations added process sewer effluent to the facility. The above-grade structures and a portion of below-grade to minus 3 feet were demolished in February 2013.

3906A Characterization

Table 1 summarizes the industrial hygiene, radiological control, and characterization samples collected prior to demolition.

Table 1. Summary of Characterization Surveys

Type	Date	Documented In	Results Summary
Asbestos	7/12/12	N/A	An AHERA accredited inspector performed a visual evaluation during sample collection and radiological surveys. No ACM was observed in lift station components.
IH Surveys and Beryllium Characterization	1/24/13	BFA-3906A-13-001	Facility declared Be free and no other contaminants of concern anticipated.
	1/24/13	IHEA-3906A-13-001	
Radiological Surveys	7/12/12	RSR-300PS-12-2512	No radiological contamination identified.

Associated WIDS sites:

During later years of operation, the 3906A lift station received process sewer effluent. Therefore, the 300-15 WIDS number is associated with this facility.

Anomalies Discovered During Demolition.

No anomalies were discovered during demolition of the below-grade portion. Post demolition soils displayed no visual evidence of staining or discoloration. A final GPERS survey of the excavation following below-grade demolition identified no radiological contamination.

Attachment 2: Project Photographs

Photograph 1: 3906A, looking east, March 31, 2006.



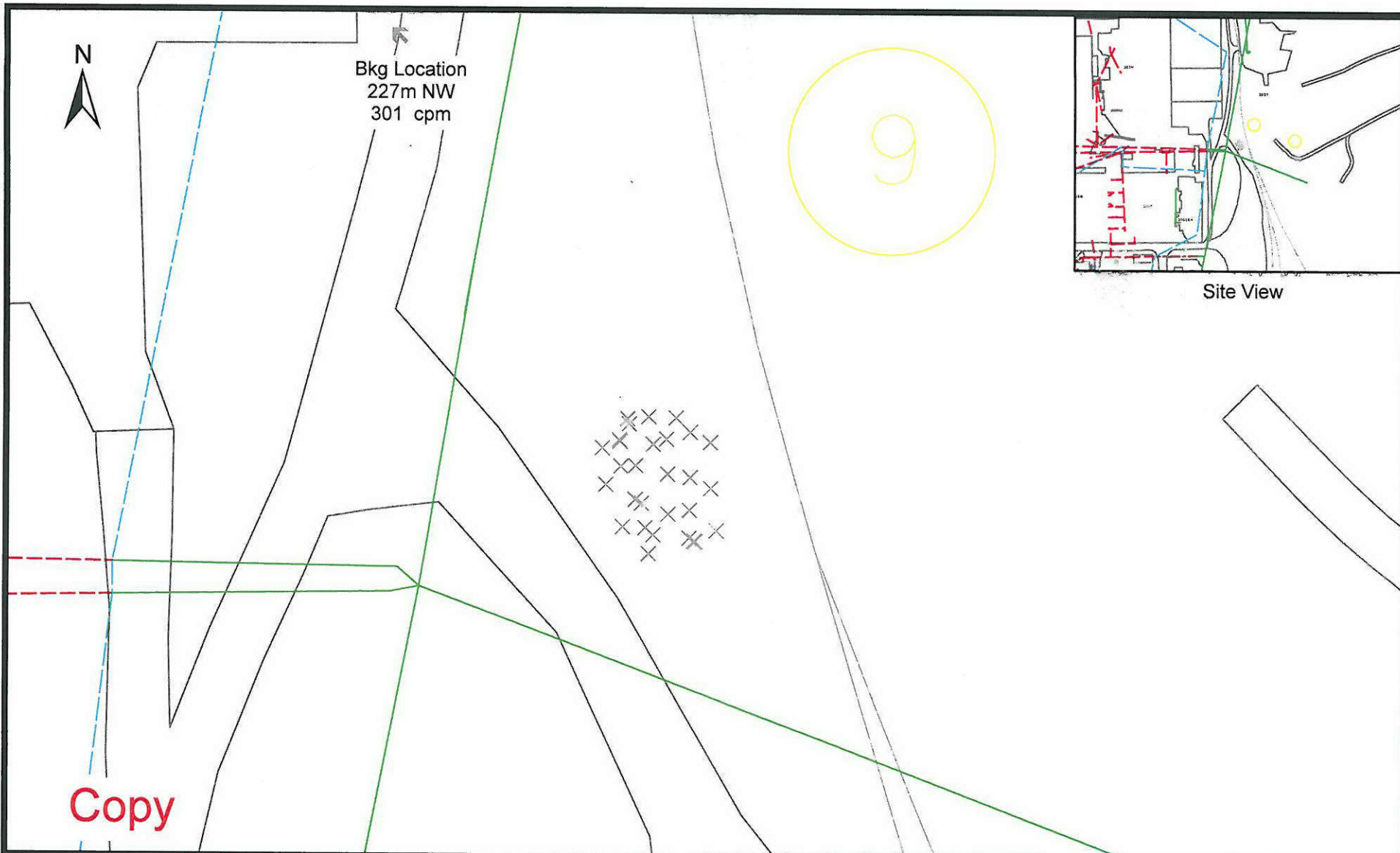
Photograph 2. 3906A excavation, looking southeast on April 4, 2013.



Photograph 3. 3906A following backfill, looking east on April 11, 2013.



**Attachment 3: 3906A Excavation GPERS Surveys Prior to Backfill
(Beta and Gamma Tracks)**



Legend

NET CPM

- × <451
- 451 - 5000
- 5000 - 10000
- 10000 - 25000
- 25000

Summary Statistics

Coverage File: D4_093A
 Number of Data Pnts: 30
 Type of Survey: beta
 Max GCPM: 457
 Avg Bkg CPM: 301
 Survey Date: 4/3/2013
 Area Surveyed: 47 m²
 Project File: ESRFRM130040B
 Pdf File: ESRFRM130040BC

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3906A

GPERS Radiological Survey Beta Track Map

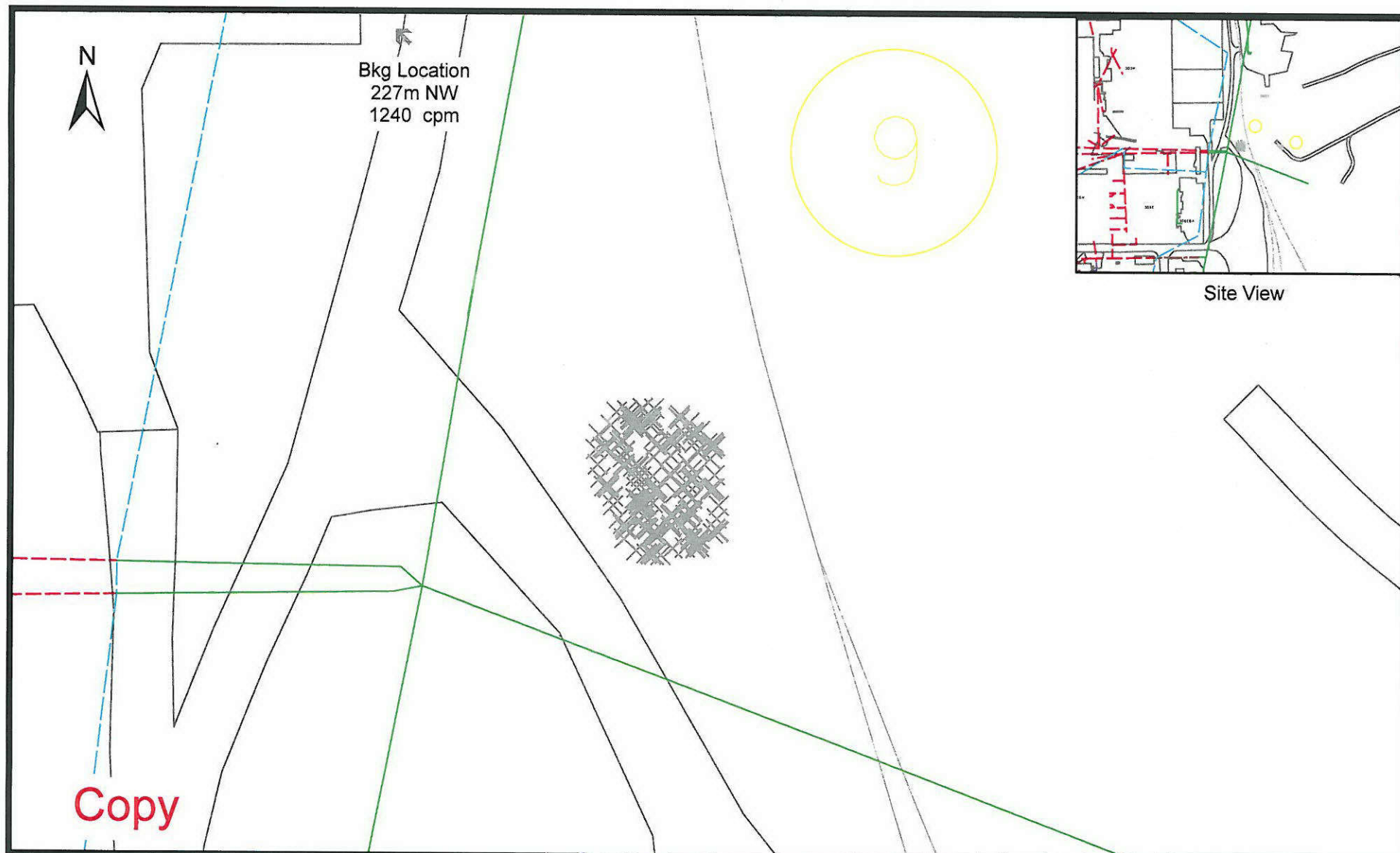
0 2 4 6 8 10

Meters



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Survey Map Prepared By Bruce Coomer, ESI



Site View

Legend

NET CPM

- × <1860
- 1860 - 5000
- 5000 - 10000
- 10000 - 25000
- 25000

Summary Statistics

Coverage File: D4_093A
 Number of Data Pnts: 352
 Type of Survey: gamma
 Max GCPM: 1905
 Avg Bkg CPM: 1240
 Survey Date: 4/3/2013
 Area Surveyed: 47 m²
 Project File: ESRFRM130040G
 Pdf File: ESRFRM130040GC

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GPERS Radiological Survey Gamma Track Map

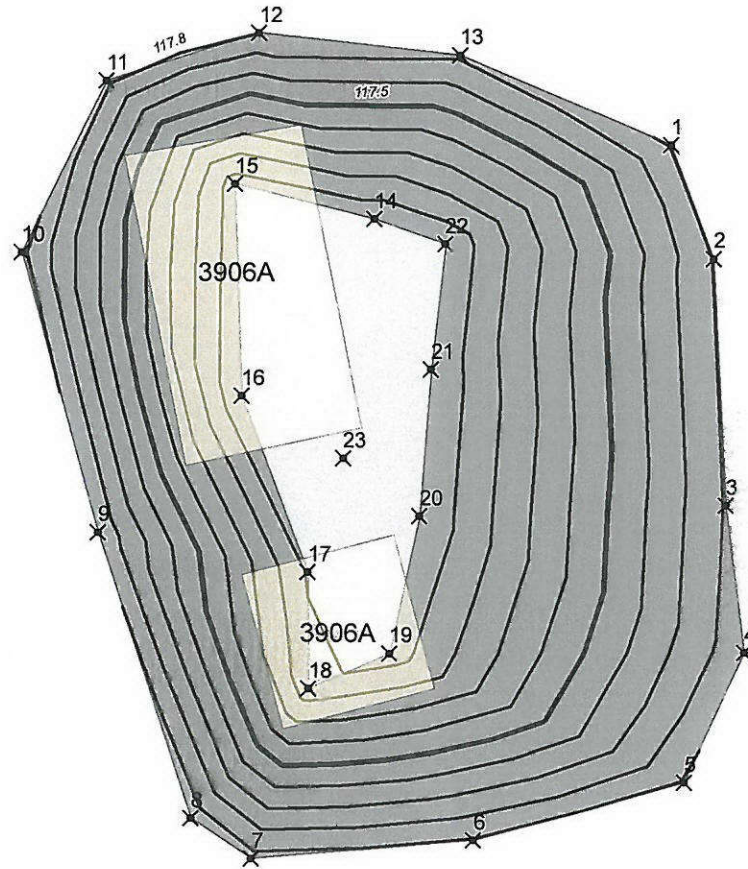
0 2 4 6 8 10
 Meters



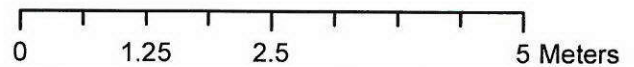
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Survey Map Prepared By Bruce Coomer, ESI

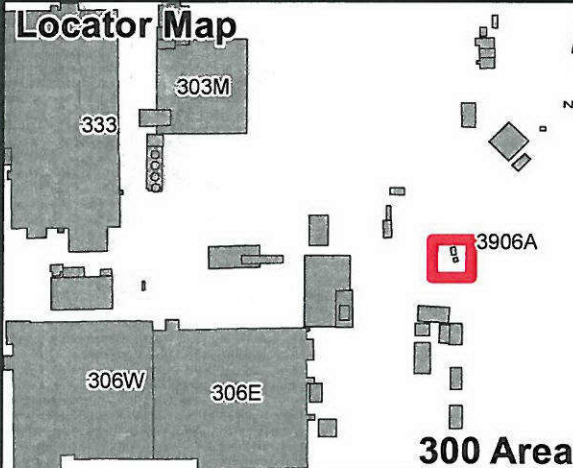
Attachment 4: 3906A Excavation Civil Survey



Name	Feat_Code	Northing	Easting
1	top	116183.359	594128.306
2	top	116182.233	594128.735
3	top	116179.785	594128.871
4	top	116178.324	594129.059
5	top	116177.036	594128.469
6	top	116176.449	594126.383
7	top	116176.259	594124.173
8	top	116176.66	594123.576
9	top	116179.496	594122.64
10	top	116182.268	594121.872
11	top	116183.974	594122.705
12	top	116184.452	594124.211
13	top	116184.239	594126.215
14	toe	116182.611	594125.364
15	toe	116182.954	594123.979
16	toe	116180.85	594124.056
17	toe	116179.104	594124.718
18	toe	116177.95	594124.73
19	toe	116178.302	594125.534
20	toe	116179.666	594125.831
21	toe	116181.118	594125.937
22	toe	116182.363	594126.074
23	topo	116180.238	594125.064



Locator Map



GPS Post Demo Survey Report For 3906A Lift

- × GPS Point Locations
- Building Locations (Pre-Demo)
- Major Contour .5m Interval
- Minor Contour .1m Interval

GPS Survey Date 4/3/13
Estimated Horizontal Percission: .020m
Estimated Vertical Percission: .050m
US State Plane 1983
Zone: Washington South 4602;
NAD83, NAVD88; Units are in Meters

Attachment 5: EPA End-State Approval

From: Gadbois, Larry [Gadbois.Larry@epa.gov]
Sent: Wednesday, February 27, 2013 11:14 AM
To: Guercia, Rudolph F
Cc: Strand, Christopher P
Subject: RE: 3906A End-State

EPA concurs with the Removal Action presented below.

EPA does this with the understanding that the pipes associated with this structure are part of the 300-15 waste site that will be remediated (removed) in the future when the current utility interferences are no longer an issue. Therefore the Facility Status Change Form for 3906A should note deferral of the associated pipeline action.

--Larry--

From: Strand, Christopher P [mailto:cpstrand@wch-rcc.com]
Sent: Wednesday, February 27, 2013 7:35 AM
To: Guercia, Rudolph F; Gadbois, Larry
Subject: 3906A End-State

Larry, Rudy,

As follow-up to our discussion last week, I offer the following information to support a proposal to perform partial demolition of the 3906A lift station and leave the balance of this structure in place.

3096A Description

The 3906-A was constructed in 1996 and served as a gravity collection point and lift station for sanitary sewer systems. The lift station is located in the northeast section of the 300 Area (reference attached GIS photograph) and consisted of an at-grade concrete pad and a 5.6 m (18.5 ft) deep concrete pit with walls up to 0.3 m (1ft) thick (reference attached drawing). The lift station collected primarily sanitary sewer effluent from various 300 Area facilities that was then pumped south through the 3906C outfall to the City of Richland Publically Owned Treatment Works (POTW). In latter years of operation, the lift station did receive process sewer effluent from a limited number of 300 Area facilities. This began in 2009 following issuance of an Industrial Waste Water Discharge Permit issued by the City of Richland for the receipt of process sewer effluent at the City's POTW. The lift station was subsequently deactivated in 2011 following completion of combined sanitary/process sewer reconfigurations.

3906A was included in Action Memorandum #3 for 300 Area facilities and is scheduled for demolition in accordance with the *Removal Action Work Plan for 300 Area Facilities* (RAWP), DOE/RL-2004-77, Rev. 2. In accordance with RAWP elements, the lift station was characterized. Characterization performed in 2012 included both radiological scoping surveys and sampling of residual water and sediment left in the bottom of the structure. Both sampling and surveys established the structure as uncontaminated and non-hazardous.

3906A End-State

It is proposed to void fill the lift station in place with Controlled Density Fill (or equivalent) to prevent conveyance of fluids through remaining piping and to mitigate potential subsidence. The top three feet of structure from grade would then be demolished and backfilled with the balance being left in place. This methodology is consistent with Section 2.6 of the RAWP and is supported by characterization sampling and the non-hazardous/non-regulated nature of the effluent during operations.

Please call if you have any questions.

Thanks,

Chris
554-2720

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<<3906A_1.jpg>>